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(54) ARRAY ANTENNA

(57) Abstract:

PROBLEM TO BE SOLVED: To suppress a side lobe without controlling the power fed to plural radiation elements from a feeding circuit.

SOLUTION: In this array antenna, the element width of two inside radiating elements 11b from among four radiating elements 11a and 11b is made narrower than that of two outside radiation element 11a. Since the directivity of narrower radiating elements 11b is broader than that of wider radiating elements, the directional gain of inside radiating elements 11b is higher than that of outside radiating elements 11a in the direction of side lobe generation. Since this is equivalent to the feed power of inside radiation elements 11b being made larger than that of outside radiating elements 11a, the side lobe is suppressed.

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